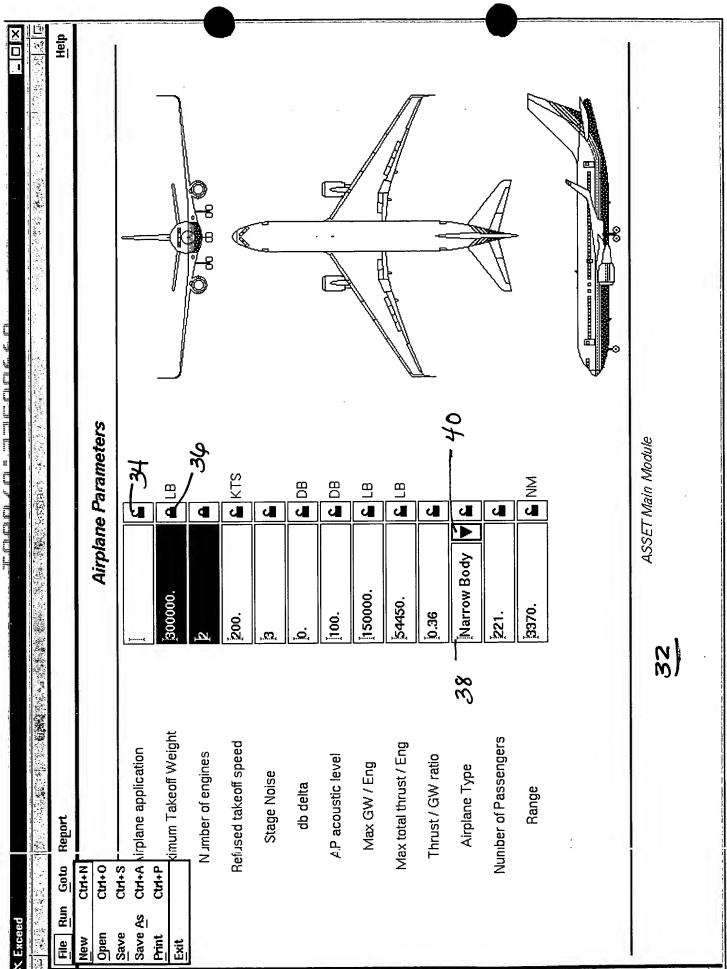
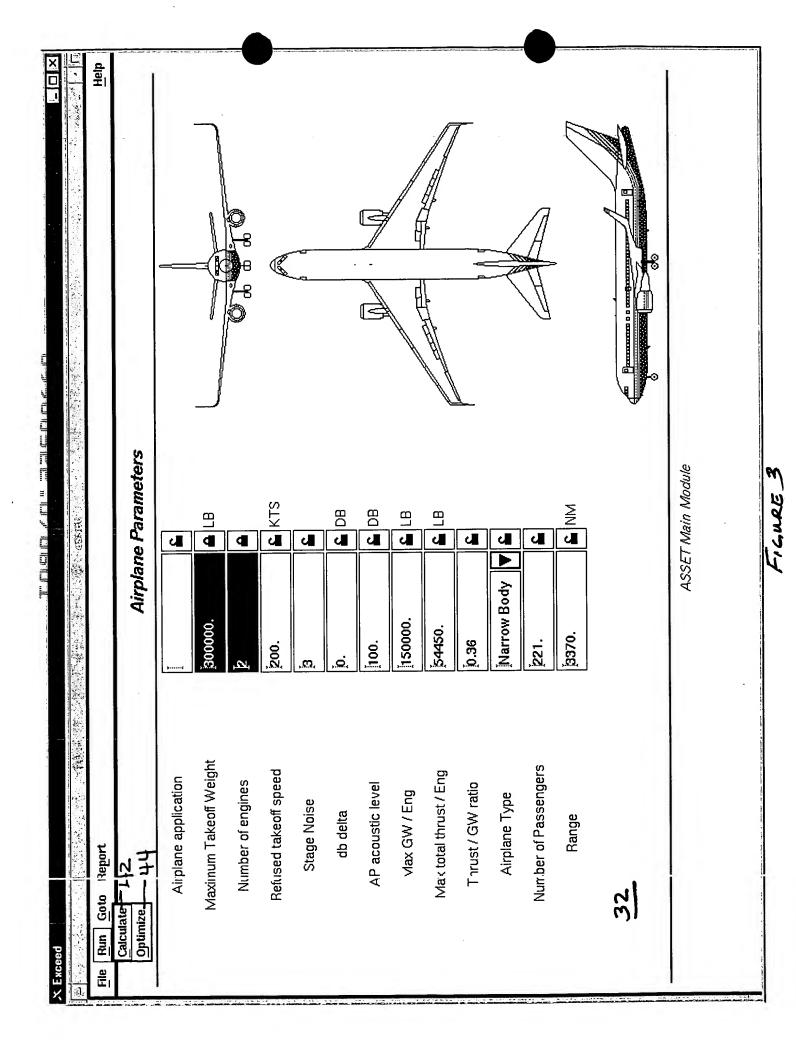
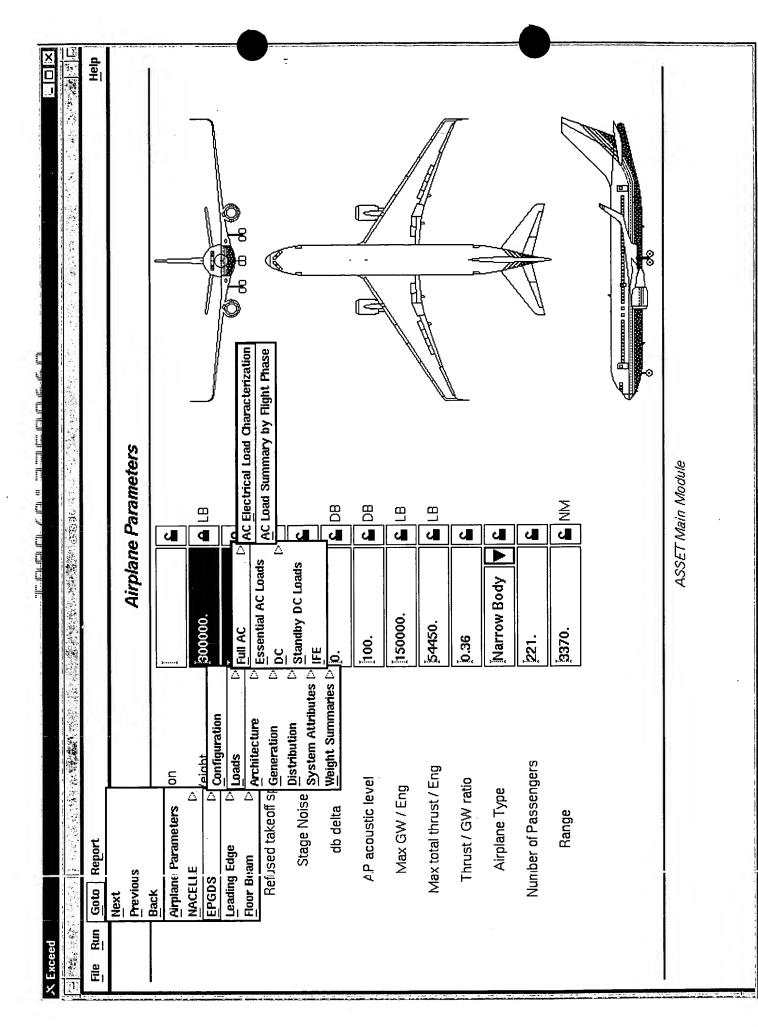


FIG. 1







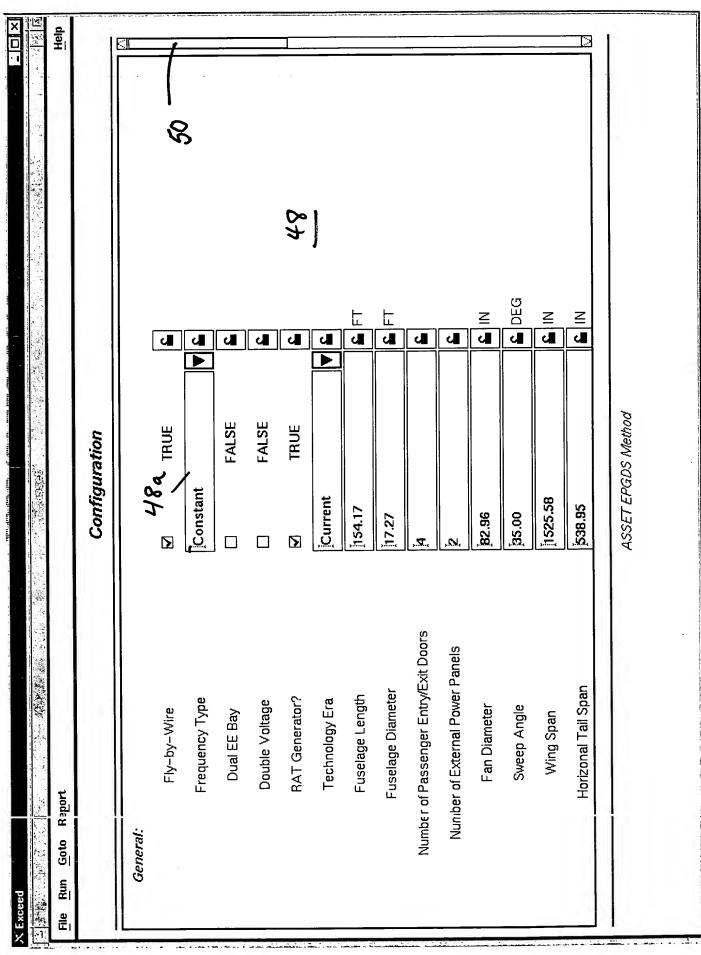


FIGURE SA

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	Configuration		
Body CL to O/B Engine CL	j0.00	N T	
Side-of-Body to I/B Engine CL	j122.43	<u>z</u>	
Side-of-Body to O/B Engine CL	j.000	길	
Dist. along LE 1/B Eng. to Side-of-Body	<u>2</u> 63.32	<u>z</u>	
Dist along LE O/B Eng. to Side-of-Body	, 00.0	<u>z</u>	
Dist. from Fwd. E/E Bay to Front Spar BS	,000 ,000	<u>z</u>	-
Dist. from I/B Eng. to EE Bay	<u>š</u> 647.27	<u>≥</u>	
Dist. from O/B Eng. to EE Bay	Ď.00	<u>z</u>	-
Length of Main EE Bay	51.72	<u>Z</u>	
H – Lower Lobe Height	56.02	<u>z</u>	
W1 Cabin Width	Ĭ198.98	<u>z</u>	
W2 Cargo Floor Width	Ĭ107.78	<u>z</u>	
Main E/E Bay Volume	ž57.2	FT~3	
Strut location	Fan	u	
Accessory location	Core	녜	

FISHDE 5B

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		AC Electrical Load Characterization	Number of Fans	Recirculation Fans	Number of E/E Cooling Vent Fans	Number of E/E Cooling Supply Fans	Number of TRUs	Number of ACMPs	Number of Window/Windshield Heaters	Number of Lavatories	0.0	io.0	io.o	jo.o Numbe
X Exceed 日本学	File Run Goto Report				~	Z			Nun		Number of Wide Body Pumps	Number of Wide Body Boost Pumps	Number of Wide Body Override Pumps	Number of Wide Body Jettison Pumps

ASSET EPGDS Method

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				(KVA)	Ĭ1.32	99.0	2.42	ž3.57	ž8.93	ŏ.20	Ď.07	6.08	Ĭ19.28	5.29) 0E.0	0.12			
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		ght	ngine		.	4	u	4	u	u	u	u	u	u	u l	u		po	
	-	Load Summary by Flight Phase	Engine Start	(KVA)	13.72	jo.68	jo.95	ž.39	23.24	jo.20	Ž0.0Ž	ğ.08	19.28	ğ.29	jo.30	0.12	₽ PF	ASSET EPGDS Method	
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		Sun			u	4	녜	4	u	ull	4	u	J	J	4	u	0.96	1 <i>SS</i> F	
		AC Load	ading	(PF)	ŏ.82	jo.90	Ĭ1.00	jo.95	Ĭ1.00	Ĭ1.00	Ĭ1.00	Ĭ1.00	ž.0 <u>,</u>	Ĭ1.00	Ĭ1.00	Ĭ1.00	KVA<>		And a second sec
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			seng		u l	4	4	J	₄	J	J	J	u l	4	u	વ			1 ([
1984 T			Passenger Loading	(KVA)	ĭ13.72	j0.68	Ď.64	j3.38	Ž5.10	Ď.20	Ĭ0.0Ž	ĬO.00	Ĭ19.28	ў.43	jo.30	Ď.12	Ĭ16.88		
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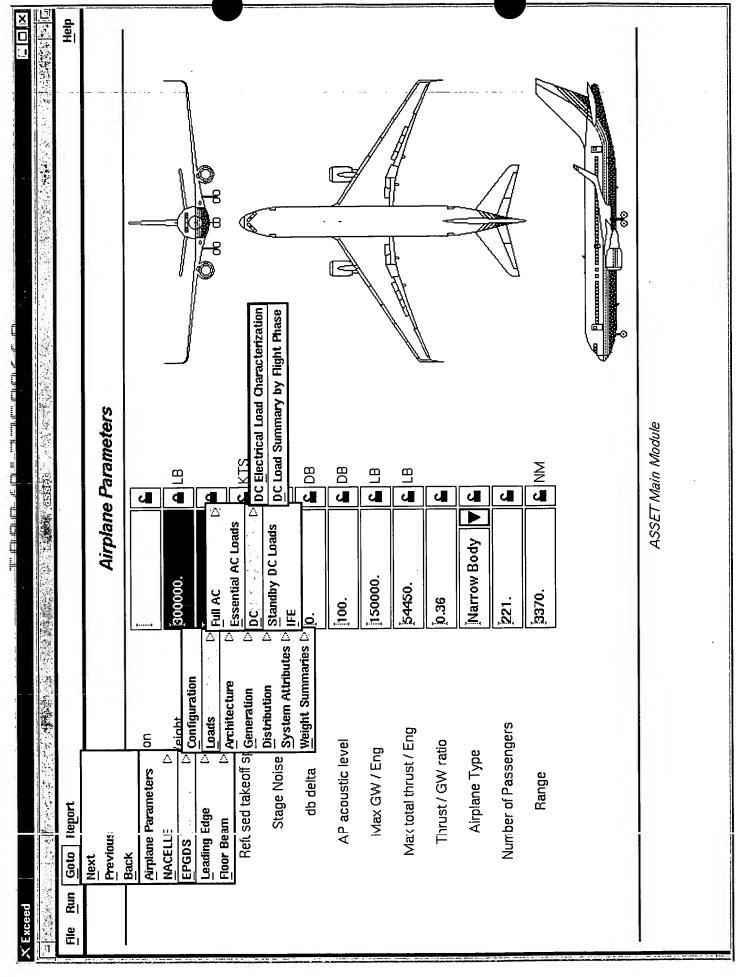
				AC Load	Load Summary by Flight Phase	nary	by Flig	ht Pi	iase				,		
	'	Passenger Loading	nger	Loading -	1		En	Engine Start	tart			1	- Taxi Out	ut	
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36 Pneumatics	<u>،یی,</u> پ	00.0	↓	, <u>i</u> ,	\$ 4	× jo.23		<u>۵</u>	Ĭ.00	u	\$) 0.00	\$ ا نا	Ĭ1.00	u u
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57 Folding Wing) <u>,</u>	00.0	<u>۵</u>	, <u>o</u> ,	\$ 4	, , , , , ,	00	¢ نا	Ď.00	4	\	0.00 0.00	٠	ĭ.00	₄
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74 Ignition)[<u></u> ♦	jo.00	\$ 4	× jj.00	\$ 4	> 0.30	30	♦	jo.33		\$ 4	, 00.0	\$ 4	Ĭ1.00	ᆁ
Maximum Flight Fhase Load		Ĭ16.88		KVA<>) 0.96		d d d d d d d d d d d d d d d d d d d				-				- I

FIGURE 7B

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Number of E/E Cooling Supply Fans	ž.0	<>®	3.20	₽ KVA			
Number of E/E Cooling Vent Fans 2.0		** (6)	3.20	₽ KVA			
		1	«				
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Number of Fuel Override Pumps 0	j.0.0	&	, 4.66	₽ KVA		<u></u>	
		1]	Passenger Load	7.08 2 KVA	⋖
Easeline Flight & Electronics, Ice & Rain	onics, Ice &	Rain	ğ.75	₽ KVA	Baseline Flight & Electronics Total Load	13.10 S KVA	∢
Baseline Flight & Electronics, Electronics	nics, Electi	onics	ğ.35	₽ KVA		. <u>-</u> -	
					Subtotal of Essential Loads	ž8.86 ⊆ KVA	→
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25 Equipmen:/Furnishings	◊	18.22	u u	\ \ \ \	Ĭ18.04	u.) \ \	18.04	u	\$	Ĭ18.04	u	\$	Ĭ18.04	U	\ \ \	18.04	u	
26 Fire Protection	\$	jo.54	u u	۲	0.54	4	, 	0.54	u I	,	0.54	u	\$	jo.54	u	\	Ď.54	⋴	
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28 Fuel	\$	<u>j</u> 6.51	Ų.) ((1.21	u u)[<u>}:::::</u>	1.21	u	\	Ĭ1.21	u	\$	Ĭ.21	u u	\$	Ĭ.21	u	
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Maximum Flight Phase Direct Current Load	t Curre	ent Load	į 139.9	9.90	AMPS	PS													
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ASSET EPGDS Method

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	60 ASSET EPGDS Method	

FISHEE 12

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	Airllow Constant	156.0	₽ CFM/KVA
	Fan performance coefficient	j0.00196522	KVA/CFM
	IFE Power Factor	j.0.98	
	IFE Utilization Factor	Ĭ100.0	
	IFE Load	Ď.0	₽ KVA
	4SSET EPGDS Method	: Method	
		enter a marchine de la company de la comp	

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Fleure 14

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FILIME 15

FICURE 16

FIGURE 17

Fisure 18

FIGNAE 19

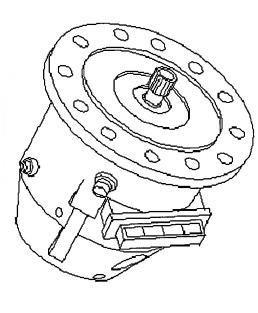
FISURE 20

Help

APU Generator

Run Goto Feport

읦



In-Flight Operable APU APU Generator Capacity Number of APU Generators

12

APU Generator Weight

30.0 E KVA 64.2 E LB 11.0

ASSET EPGDS Method

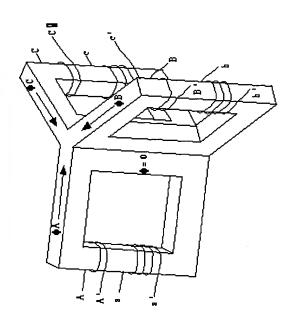
FICURE 22

FIGURE 25

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	Control of the Contro			Section 1

Transformers

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Step-Up Transformer Capacity	Step-Up Transformer	Step-Down Transformer Capacity	Step Down Transformer Weight

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0.0	u	LB
jo.0	₄	X X V
0.0	u∎	LB

ASSET EPGDS Method

X Exceed

							Help
	Wire Ts	pe &	Wire Type & Weight				·
Show Data for: MAIN							
Wire Type, Feeder 1:	<> JBMS 13-60 Type 7	□	Feeder 1:	^	11.2	B]	
Wire Type, Neutral 1:	<> BMS 13-60 Type 7	山	Neutral 1:	\$	ž.4	GI CI	
Wire Type, Feeder 2:	<> JBMS 13-60 Type 7	4	Feeder 2:	\$	Ĭ12.5	III	
Wire Type, Neutral 2:	<> BMS 13-60 Type 7	4	Neutral 2:	\$	Ĭ.7	(B)	
Wire Type, Feeder 3:	<> BMS 13-35 Type 1	□	Feeder 3:	\$	Ĭ15.2	I I	
Wire Type, Neutral 3:	<> BMS 13-35 Type 1		Neutral 3:	◊	ž.3	LB LB	
Wire Type, Feeder 4:	<> įBMS 13–35 Type 1	⊘	Feeder 4:	\$	<u>į</u> 14.7	LB	
\vire Type, Neutral 4:	<> BMS 13-35 Type 1	3 ■	Neutral 4:	\$, , , ,	B I I B	
Wire Type, Feeder 5:	<> BMS 13-60 Type 22		Feeder 5:	\$	Ď.0	I I	
\\ire Type, Neutral 5:	\$\text{BMS 13-60 Type 22}\$	3	Neutral 5:	\$	0.0	u u	

B LB

<u>,65</u> 4

TRU Feeder Weight

87 4

. 68.8

Total Wire Weight

FIGURE 35

ommon Dependability Cost Inputs	Сотто
Help	<u>File Run Goto Feport</u>
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man and many many many han	n

Number of Main Generators per Airplane

Average Number of Flights per Year per Airplane

Average Flight Hours per Flight

Airplane Fleet Size

Length of System Life in Years (1 – 30 Yrs,)

Average Non-fuel Inflation Rate beyond Present Year

Minimum Attractive Rate of Return

		HRS		YEARS	<u>%</u>	<u>%</u>
u	u	₄	u	₄	u	L
,120,	Ĭ1100.	j3.40) 30)))	ŏ.035	Ĭ0.12

Help

Fuel Costs

Goto Report

Run

File

Fuel Cost per Gallon, Base Year

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0.49

HRS^-1

0.0310

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<u>무</u>

<u>무</u>

<u>ال</u>

H G

221.0

Lbs Fuel Burned / Flight Hour / Lb Additional Weight System Weight (per airplane) System Direct Horsepower Requirement (per airplane)

System Drag Horsepower Requirement (per airplane) System Cooling Horsepower Requirement

System Pound of Fuel per Block Trip (per airplane)

Average Fuel Inflation Rate Beyond Present Year

% **₄**

0.035

₽ DOLLARS **₽** DOLLARS **615800**. 1860.

Fuel Cost (NPV of Life Cycle Cost) Fuel Cost per Airplane per Year

1350000. **E** DOLLARS 1787786. **E** DOLLARS

Spares Holding Cost (NPV of Life Cycle Cost)

Spares Cost (NPV of Life Cycle Cost)

Spares Cost per Airplane per Year

3137786. ♣ DOLLARS **9478. ♣** DOLLARS

Direct Labor Rate per Hour	Maintenance Labor Burden Factor	Mean Time Between Unscheduled Removals
----------------------------	---------------------------------	--

Mean Time Between Unscheduled Kemovals Line Labor Hours Required per Removal Line Labor Hours per Maintenance Action (Non-Removal)

Maintenance Actions per 1000 Flight Hours (Non-Removal)
Line Maintenance Cost (NPV of Life Cycle Cost)

Line Maintenance Cost per Airplane per Year

Ž1.00	DOLI	DOLLARS/HOUR
2.4	u u	
Ĭ12000.	HRS	
ž.0	HRS	
Ĭ0.5	HRS	
0.50	HRS^-1	Ţ

DOLLARS	DOLLARS
) 13673.	ž23.

 §819057.
 ©
 DOLLARS

 §20597.
 ©
 DOLLARS

Shop Maintenance Cost (NPV of Life Cycle Cost)

Shop Maintenance Cost per Airplane per Year

Ž1.00	u	■ DOLLARS/HOL
2.4	녜	
Ĭ12000.	u	HRS
Ž.0	u	
0.0	u	
Ĭ0.00	u	HRS^-1

DOLLARS	DOLLARS
Ĭ1237712.	ja739.

Scheduled Maintenance Material Dollars per 1000 Flight Hours

Rectification Man Hours per 1000 Flight Hours

Scheduled Maintenance Cost (NPV of Life Cycle Cost)

Scheduled Maintenance Cost per Airplane per Year

Average Delay Cost per Delay Hour
Average Cancellation Cost per Cancellation
Average Air Turnback Cost per Turnback
Average Diversion Cost per Diversion

Ĭ10300.	4	DOLLARS/HOUR
ž1000.	u	
, 36700.	u	DOLLARS
ў 4 3000.	₄	DOLLARS

Number of Delays per 100 Departures Average Delay Time (Hours) Number of Cancellations per 100 Departures
Number of Air Turnbacks per 100 Departures
Number of Diversions per 100 Departures

₄	HRS	u	u l	u
0.0030	Ĭ.70	0.0001	jo.0002).0000

493999. DOLLARS

Schedule Interruptions Cost (NPV of Life Cycle Cost)

Schedule Interruptions Cost per Airplane per Year

FISURE 45

X Exceed			F. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
File Run Goto Feport				Help
		_	Reliability Inputs	
Average Flight Hours per Flight	j3.40	₄	IFSD Rates (per 1000 flight hours)	
LR:JMTBF's			Engine In-flight Shutdowns per 1000 hours	0.010 E HRS^-1
Main Generator MTBF	že000.	녜	APU In-flight Shutdowns per 1000 hours	0.200 L HRS^-1
APU Generator MTBF	Ž0000.	u		
VSCF Backup Generator MTBF	Ž0000.	u u	Failure to Start Probabilities	-
Generator Control Unit (GCU) MTBF	ž50000.	u	APU No-Start Probability	Ď.010
Backup Converter MTBF	Ĭ15000.	и		
Generator Control Breaker (GCB) MTBF	,300000.	и	Probability of RAT Unavailable when Required	j8.2e−03
			Other Failure Rates (per flight hour)	
Ram Air Turbine MTBF	Ĭ10000.	u	Rate of Other Channel Faults	ĭ1.2e-05 ⊾ HRS^-1
RAT Gen. Control Unit MTBF	, 4 0000.	u u	Main Generator Shaft Shear Rate	3.0e-06 HRS^-1
Permanent Magnet Generator (PMG) MTBF	,420000.	u	Backup Generator Shaft Shear Rate	1.2e−05
Main and APU Battery MTBF	ž2000.	u		
Main and APU Battery Charger MTBF	30000	u		

FIGURE 46

Floure 47

FIGURE 48

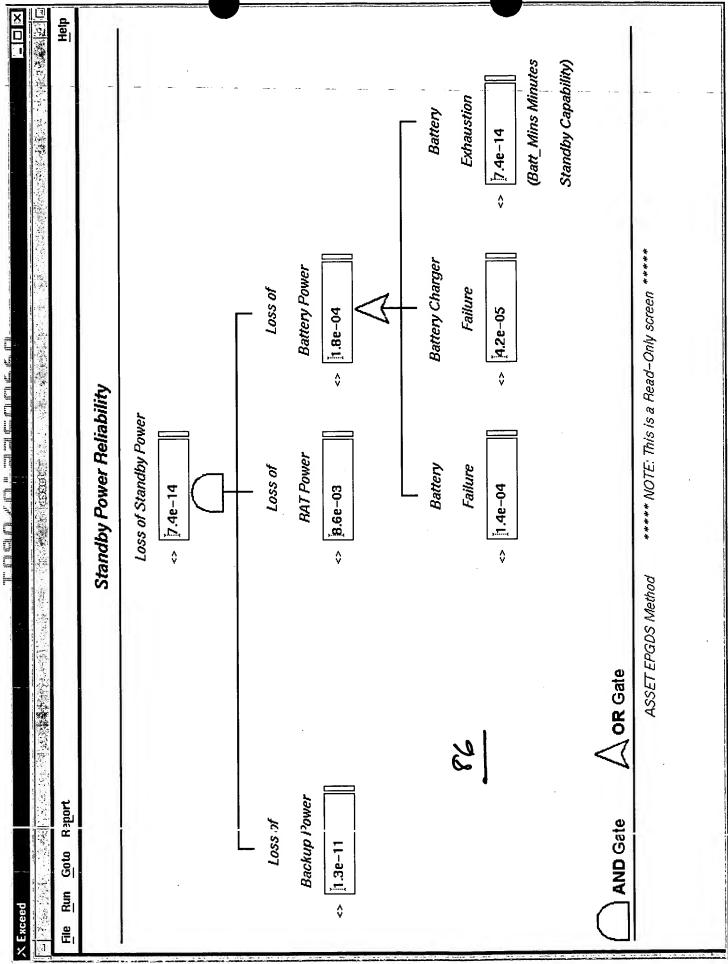


FIGURE 49

FLAURE SI

			- 1
Preparation limes			
Unscheduled	duled	Servicing	Alignment &
Removals	rals.		Adjustment
Maintenance Preparation Times (Flight Hours)			
Main Generator Unscheduled Removal Maintenance Coordination Time 0.10	ull	<> j0.10	<> 0.10 <>
Main Generator Unscheduled Removal Dispatch Delay Time	u u		
Main Generator Unscheduled Removal Airplane Ferrying Time	u l		
Main Generator Unscheduled Removal Supply Delay Time	u l	<> j0.10	
Main Generator Unscheduled Removal Spares & Equipment Issuing Time	u l		<> 0.50 \$
Main Generator Unscheduled Removal Transport Delay Time	녜		
Main Generator Unscheduled Removal Maintenance Delay Time	녜	<> j0.10 <>	<> 0.10 <>

2

	Inherent Availability	Maintenance Preparation Times(Flight Hours) Main Generator Mean Time to Repair 3.190 3.190 □ 3.190 □ □	Main Generator Mean Maintenance Preparation Time 5.520 E		Main Generator Inherent Availability	76	
eed Some	Tile Kull Gow report	Maintenance Preparation Tim Main Generator Mean Tir	Main (3enerator Mean Maintenan	Mair, Generator Mean Time Bet	Main Generator Inherent	9	

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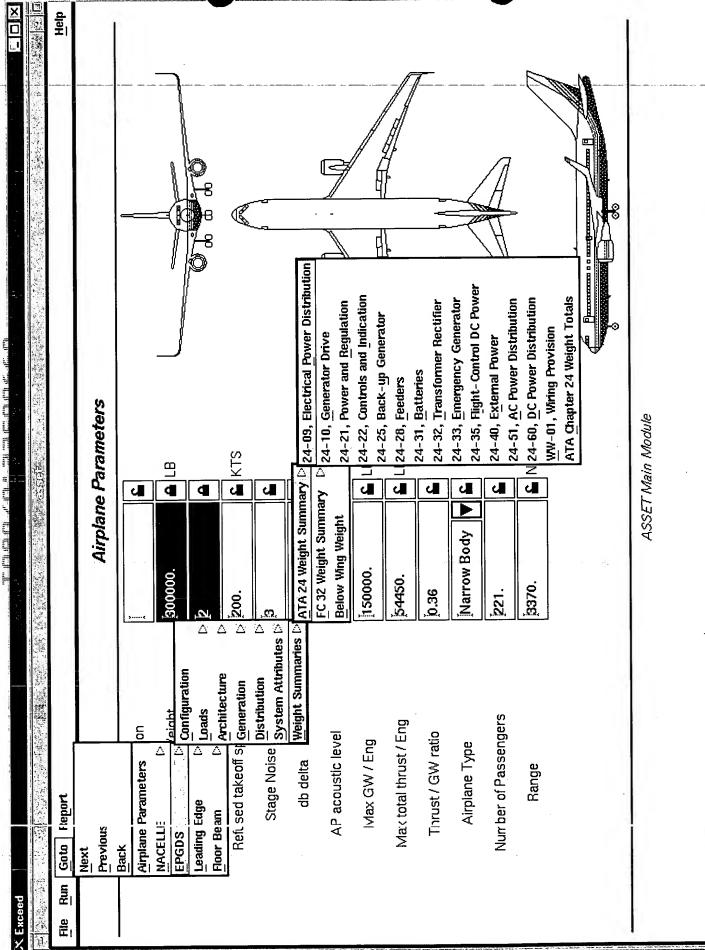


FIGURE SS

6

FI GURE

FIGURE 59

السلا الله الله الله الله الله الله الله		24-25, Back-up Generator	Component Designation Quantity Unit Wt Subtotal	S <> PMG Back-Up Generator, INBD R <> 1	S <> PMG Back-Up Generator, INBD L S <> i1 S <> i2.0 S LB <> i5.0 LB <> i2.0 S LB	S <> VSCF Generator, INBD R <> 1	S <> VSCF Generator, INBD L <> 1	S <> VSCF Converter, INBD R <> 1	S <> VSCF Converter, INBD L <> 1	87 0.0 <> 81 2 0.0 <> 80 2 <> 10 0.0 <= 12 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 13 0.0 <= 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Х Ексееd	File Run Goto Fleport		Component #	0	\$	\$	\$	\$	\$								

FIGURE 60

FIGURE 61

FIGURE 62

FILMEE 64

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			THE STATE OF THE S			Sales Andread					1337	3,55	A CHAIN	
File	Run Goto Report									1				Help
			24-35, Flight-Control DC Power	DCF	оме									
	Component #	at.	Component Designation	0.5	On	Quantity		Unit Wt	Vŧ		Subtotal	tal		{
\$	M24*01	<> 3	> Power Supply Unit (PSA)	4	<u>,.c.,</u> ♦		⇔	ğ2:0	BJ 🖪	\$ M	105.0	U	LB ·	
\$	FCDC Batt	\$ 4	> FCDC Battery	c#	, <u>.ca,</u>		پ ا ن	Ĭ14.3	e le	\$	Ĭ42.9	ᆁ	LB	
\$	Mire	\$ 4	/ Fly-by-Wire (FBW) Distribution Wire	८ ∎	<u>, </u>		\$ ا	jaa.2	(B)	\$	j 33.2	u	LB	
\$	Conn	\$ 4	> Fly-by_Wire (FBW) Distribution Wire Con	₄	<u>`~</u>		¢ ط	5.0		\$	5.0	4	LB	
\$	Ĭnstall	\$ 4	> PSA Installation	ull l	<u>, </u>		\$ الع	20.7		\$ m	20.7	u	В	
.	ĬTRU_Batt	\$ 4	> į2 ACE TRU	u ∎	<u>,</u>		⋄	5.0	E LB	\$	5.0	u l	 B	
\$	3 (\$ U	,	u ∎	, <u>o</u> . ≎		¢ د	0.0		\$ —	<u>0</u> .0	u	 	
\$	} ,,,,,,,	\$ 4	,	u	<u>,.Q.,</u>		\$ [4]	0.0	I LB	\$ Ф	Ď.0	₄		
\$)······(<> □	<u>}4</u>	ull l	, <u>Ω,</u>		\$ 4	0.0	u	LB <>	Ď.0	d	LB	
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.	postore	\$ 4	<u>}</u>	₄	<u>,o,</u>		⋄	0.0	u u	LB <>	Ď.0	4	ЕВ	
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.	>	\$ 4	,	u u	, \$		\$	j0.0	4	LB <>	0.0	4	LB	
			1	ATA 2	4-35,	Flight	-Can	ATA 24-35, Flight-Control DC Power	ower	,0,	ž11.8	4	LB	
			ASSET EPGDS Method	thod										

FIGURE 65

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	Component #			Component Designation		Quantity	tity		Unit Wt			Subtotal	al		
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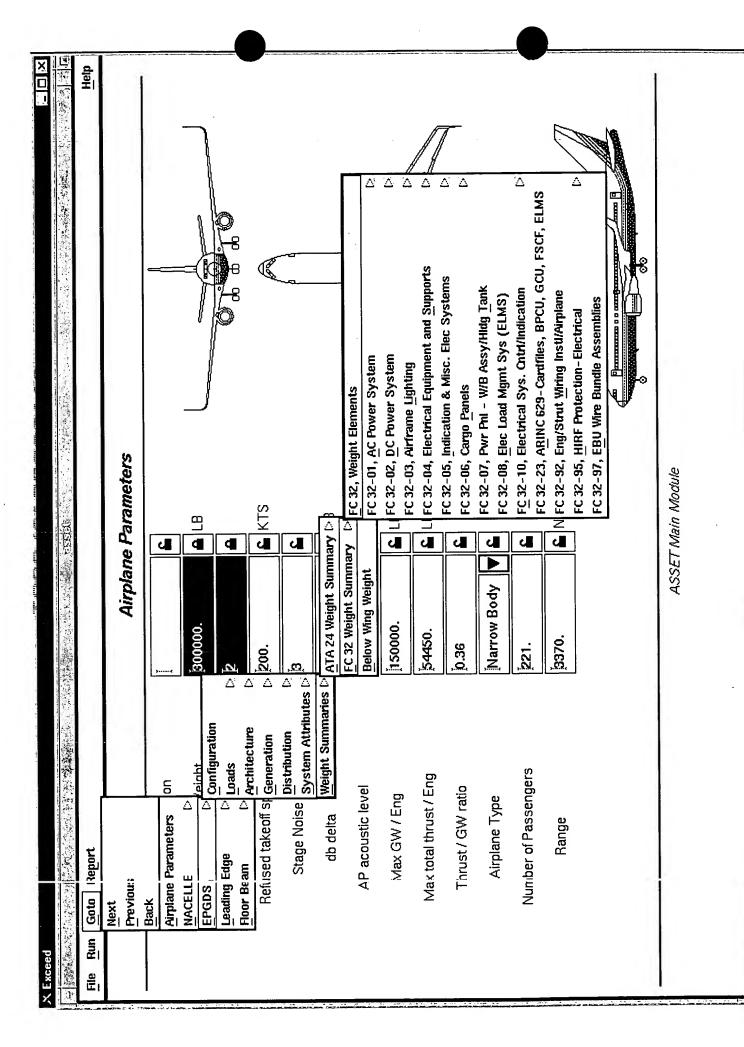
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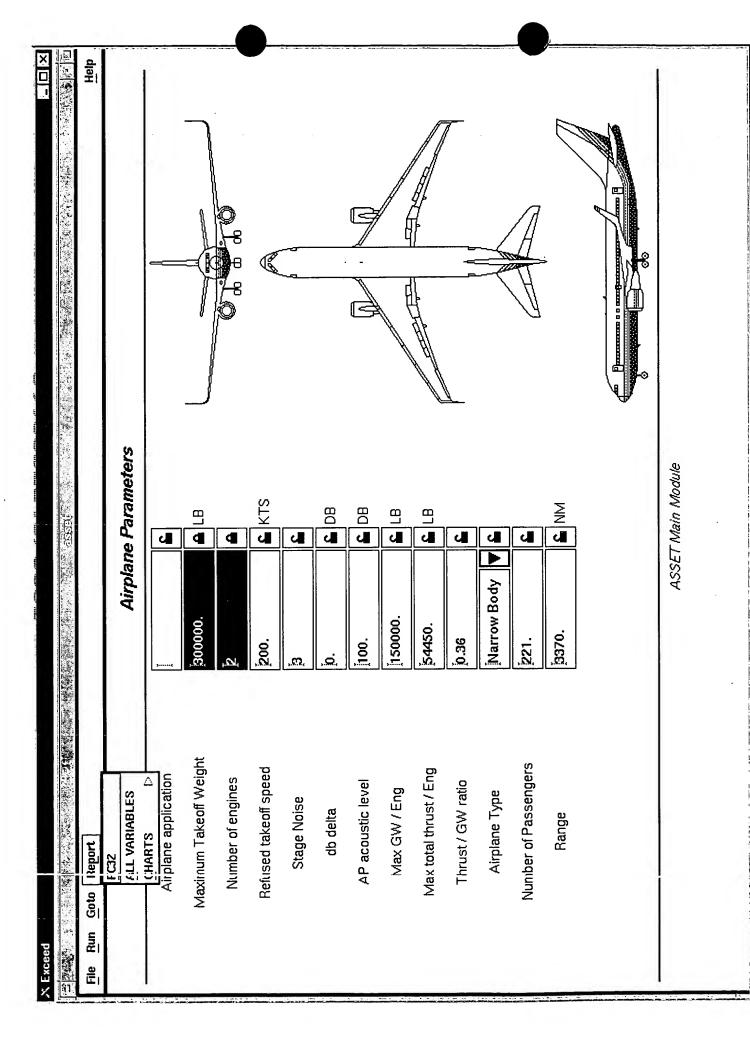
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					WW-01, Wiring Provision	visi	uo											
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ASSET EPGDS Method

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ATA 24-10, Generator Drive) 113.6	u	87	
ATA 24-21, Power and Regulation	ž85.2	ᆁ	. 81	
ATA 24-22, Controls and Indication	Ĭ15.0	u	81	
ATA 24-25, Back-up Generators	j.72.4	u	-	
ATA 24–28, Feeders	274.4	u	87 87	
ATA 24-31, Batteries	, , , , , , ,	u	B	
ATA 24–32, Transformer Rectifier	64.4	u	87 <u>.</u>	
ATA 24-33, Emergency Generator	Ĭ100.7	₄		
ATA 24-35, Flight-Control DC Power	Ž11.8	u	B]	
ATA 24-40, External Power	59.5	u	H U	
ATA 24-51, AC Power Distribution	Ĭ106.0	4	87 3	
ATA 24-60, DC Power Distribution	49.4	u l	B J	/
WW-01, Wiring Provision	152.6	u I	-B	
Electrical Power Generation & Distribution System	2498.0	ᆁ	87 4	





FISURE 12

FIGURE 13

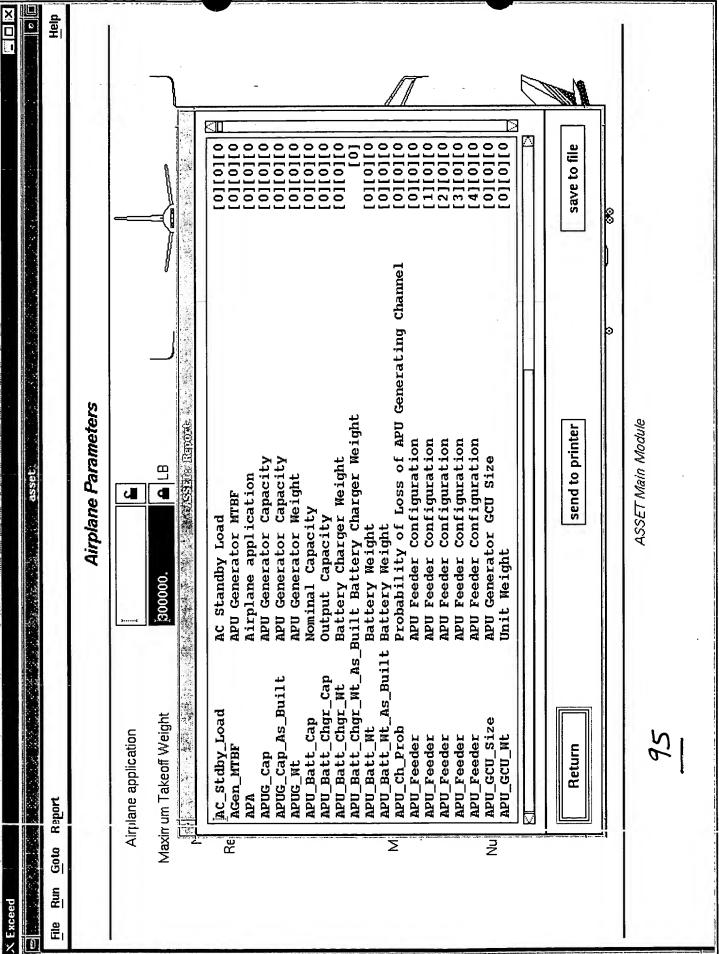


FIGURE 94

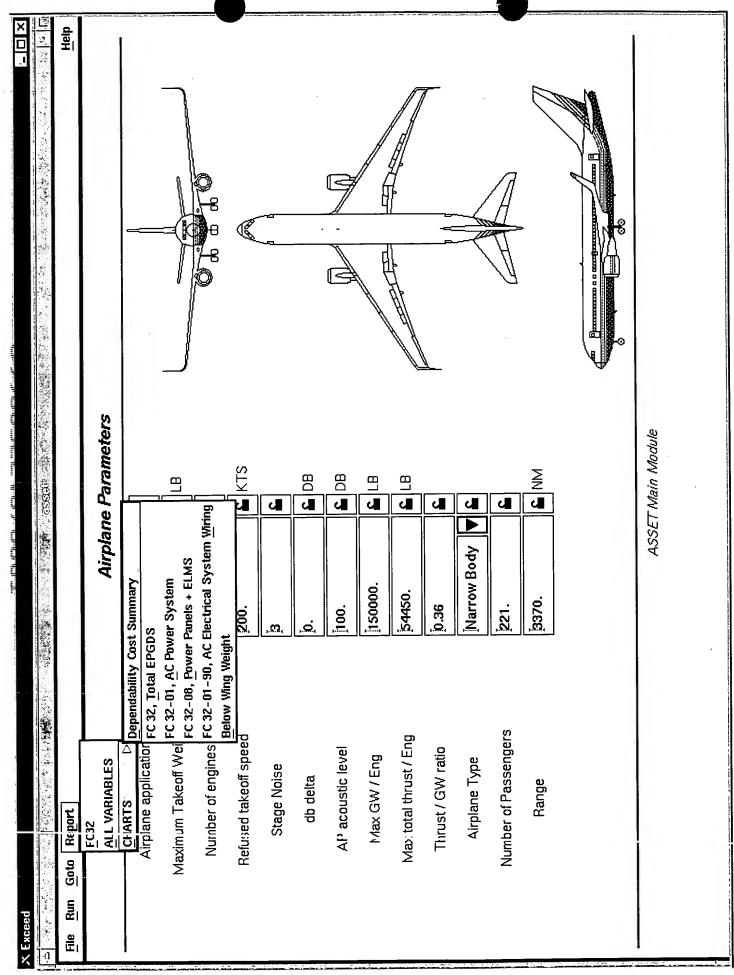


FIGURE 75

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THURE 77

FLEURE 98

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FISURE 80

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